

Building Façade Repairs

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SECTION 1 – Categorization

This report will document a pilot study undertaken by Broadway Real Estate Services LLC, hereafter known as the building “Owner” to evaluate the self-implementing on-site cleanup and disposal option of Title 40 § 761.61, PCB remediation waste. The structure of this document is based upon electronic Code of Federal Regulations (copy attached).

1.01 Applicability

100 California is a 14 story building constructed in the 1960s. The building is occupied and is surrounded by paved surfaces with the exception of nine planters on the east (7) and south sides (2) of the building. Exterior finishes for the first floor of the main building are glass with columns clad in marble and granite. Exterior finishes from the second floor 25' and above are glass, stone (primarily white and black granite) with miscellaneous metal appurtenances (see photo). Exterior finishes for western low rise building are granite.



2.0 Site Characterization

2.01 Bulk Caulk Samples

TABLE 1 - Bulk Caulking Sampling Data: Between the months of May and June of 2009 a total of 68 bulk caulking samples were collected from the subject building. Samples were collected across all elevations of the building. The results of this testing indicated that caulking containing PCBs (Aroclors 1254 and 1260) was used to seal the joints between exterior granite panels, marble panels, metal panels and metal mullions. The caulking is presently intact and remains adhered to the building. The total estimated amount of caulking is 124,647 linear feet. Assuming the caulking covers approximately ¼ inch on across the face of a granite, a marble or a metal panel an overall square footage of cleanup area of roughly 5,200 square feet is estimated. Table 1 provides a summary of the bulk sampling data. All samples were transferred under chain of custody to McCampbell Analytical, Inc. Samples were analyzed using EPA method 8082. Sampling results are in the attachments.

PCB concentrations for the first floor ranged from non-detect (ND) to <100 parts per million (ppm), and for the second floor and above from approximately 12 ppm to 38,000 ppm for stone to stone and stone to metal surfaces. The maximum caulking concentration (189,000 ppm) measured was on metal to metal panels located under the windows. The caulking on the upper floors was predominately black, while that on the ground floor was white / black in color. PCB caulking will be removed from building finishes and the metal will be re-caulked with non-PCB caulking. Metal is considered non-porous and will not be discussed further.

2.02 Planter Soil Samples

TABLE 2 - There are nine shallow landscaping planters approximately four feet by four feet in size along the south (2) and east (7) side of the building. One 3 point composite soil sample was collected from each planter as follows: diagonal corners and at the approximate center line of the diagonal. Sample depth was the first four inches of soil, which were composited and transferred to McCampbell Analytical under chain of custody. The result of testing indicated that the second planter at the southeastern corner of the building had concentrations of Aroclor 1254 at 1.1 ppm. Six of the other planters also had detectable concentrations of either Aroclor 1254 or Aroclor 1260 ranging from 0.10 - 0.44 ppm, which are below cleanup levels. The owner will remove the top layer of soil (6") from the affected planter and replace it with clean soil so that "No Further Action" levels are reached.

2.03 Pilot Study:

On September 29, 2009, in order to determine the amount of residual PCB's remaining in stone finishes following a typical envelope repair, a pilot study was undertaken by Urban Water Proofing with the assistance of their subcontractor Restec Environmental. The pilot study entailed the removal of PCB caulking, surface grinding of exposed edges, followed by alcohol cleaning of stone interfaces to remove loose debris. After this surface preparation and prior to the replacement of caulking, representative stone chip and surface wipe samples were collected as follows:

- A. A total of 22 samples were collected across two elevations of the building by Urban Waterproofing and Restec. The sample results are reported in Table 3.
 1. **Table 3.0** - Nine (9) stone chip (granite and marble on the first floor and granite on upper floors) samples of building finishes were collected by Urban Water Proofing for the purpose of PCB extraction and analysis. All samples were analyzed by McCampbell Analytical, Inc. using EPA method 8082 (see Table 3.0). Samples were collected from stone panels in contact with caulking on the 1st, 7th, 11th 12th and 13th floors. Analysis of the stone chips at the ground floor revealed < 0.79 ppm detectable levels of PCB Aroclor absorbed into the edge of the stone. Chip samples collected from upper floors indicated concentrations ranging from < 0.50 ppm to 5.4 ppm¹.
 2. **Table 3.1** - Nine (9) wipe samples were collected by RGA following Standard Wipe Test method for PCBs, 40 CFR 761.123. For all wipe test areas there was no detectable PCB Aroclor residue accumulated on the stone surfaces following prep-work² and cleaning.
 3. **Table 3.2** - Three (3) grout samples collected by Urban Waterproofing and Restec indicated PCB concentrations within the cement grout³ at 29.36 ppm. As the grout will be completely removed and properly disposed of it is not discussed further as part of this report.

2.04 Testing Results Summary

- A. **Table 1** - Bulk Caulking samples collected across all elevations of the building indicate the caulking on the first floor of the building was different from upper floors both in color (dark gray/white color) and PCB concentration. Caulking on second floor, which begins at 25' vertical feet above the first floor of the building, is black. PCB concentration for the dark gray/white caulking ranges from non-detect to 150 ppm. PCB concentrations for the black caulking range from 13 ppm to 38,000 ppm with an average concentration of 4,900 ppm.
- B. **Table 3.0**- Chip testing indicated that over the previous 50 years, stone surfaces have absorbed relatively small amounts of PCBs from caulking. Residual PCBs within building finishes were measured at < 0.79 ppm at ground level, while upper floors had concentrations ranging from < 0.05 ppm to 7.32 ppm (at a 95% confidence level see Section 4.0 Cleanup Levels - yellow).
- C. **Table 3.1**- Approximately 100 cm² of the exposed surface area between the panels was wipe-sampled by RGA using the Standard Wipe Test protocol with hexane as defined in 40 CFR 761.123. Wipe samples were collected following surface preparation. The results of wipe sampling for all test areas indicated no detectable levels of PCBs for any of the samples collected.

¹ 95% Confidence based upon the sample set - 8 solid samples with ND results marked up to detection limits.

² Caulking is removed via razor cutting. Surfaces are prepared via grinding.

³ Grout is between white granite sheathing under windows

3.0 Notification and Certification

The requirements under this program require at least 30 days prior notification to the agency(s) that the cleanup of the site is beginning. This notification is given by the person or organization in charge of the cleanup or the property owner of the PCB remediation waste site. This notification was done by the owner in September, 2009. The agency(s) are the following:

- US Environmental Protection Agency Regional Administrator – Region 9 Jared Blumenfeld
- Department of Toxic Substances Controls
- Bay Area Air Quality Management District

This notice included the following information:

3.01 Nature of the Contamination

The nature of the contamination is caulk that was used to fill in the seams between metal and/or stone panels on the sides of the building. These caulking materials contained PCBs at varying concentrations. Small amounts of the PCBs may have leached into the unfinished edges of the stone panels causing very low level contamination of this stone material. Testing of planters at the front of the building indicated a 1.1 ppm concentration of Aroclor 1254 within one planter **at the southeast corner of the building.**

3.02 Summary of Procedures Used to Sample Contaminants

The procedures used to sample and characterize the contaminants are identified in Section 2.0 of this document and are comprehensive in nature. A table of the contaminant concentrations and a location are attached to this document. All sample collection information, locations and dates of sampling are noted in those documents. The pilot study done to document the extent of contamination is detailed in Section 2.0.

3.03 Locations and Extent of Identified Contaminants

The information requested for this section is located in Section 2.0 of this document. All relevant data that has been collected and characterized are in that section. Further details of pertinent information are included in previous documents submitted to the agencies for review. Additional materials that may be requested or needed will be provided to the agencies upon request.

3.04 Cleanup Plan and Schedule for the Site

This information is in Section 5.0 of this document and references all of the practices and procedures that will be followed by the property owner, the prime contractor and the sub-consultants and prime consultants working on this project.

3.05 Written Certification of Compliance

This section designates that all documents, including, but not limited to, sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, analytical procedures and other ancillary documents are filed at a location on the cleanup site and are available for review with proper advance notification by EPA and other designated regulatory authorities. This certification shall be signed by the project manager, prime contractor and the property owner and a copy will be kept with the documents. Electronic documents may be substituted at the discretion of the EPA and other regulatory agencies.

- The EPA Regional Administrator has 30 calendar days to respond to the notification by the owner, either approving or denying the request for the self-implementing cleanup. If the EPA administrator does not respond within the time period, the owner submitting the application may assume that it is complete and acceptable and proceed with the cleanup according to the work plans in place. Once the cleanup is underway, the owner will provide written notification of any proposed changes to the cleanup plan to the

EPA Regional Administrator no later 14 calendar days prior to implementation of the changes. If the administrator is not in agreement with the proposed changes, they will respond verbally within 7 days and in writing within 14 calendar days.

- The owner may obtain a waiver to the 30 day notification period requirement if they receive a separate waiver in writing from each agency that they are required to notify. All documents pertaining to these sections shall be kept on file or electronically with EPA approval at the cleanup site location.

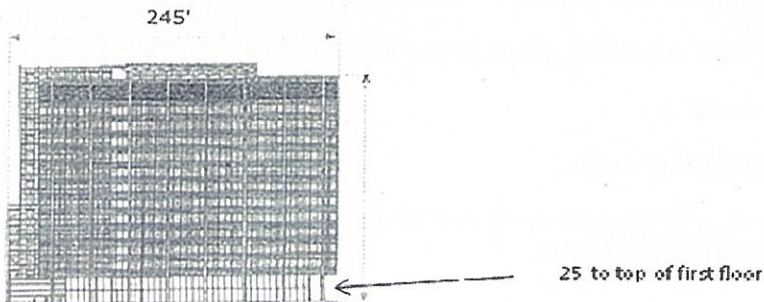
4.0 Cleanup Levels

The building entrance is defined as a high occupancy area under the regulations. Residual PCBs within finishes in this area were measured at < 0.79 ppm and thus meet cleanup levels without further action. Exterior granite finishes on upper floors⁴ are low occupancy under the regulation and have residual concentrations of PCB containing material of < 5.5 ppm, which meets the current cleanup levels for low occupancy areas requiring no further action. Using the same testing results and assuming a 95% confidence limit for the upper floors a concentration of 7.32 ppm is calculated (see below). This concentration also meets the current cleanup levels for low occupancy areas requiring no further action.

These results are consistent with the guidance given in CFR 761.62 and there is no scientific or professional reasoning to deviate from those regulatory limits for this project, especially in light of the pilot study.

TABLE 3.0 Pilot Study Stone PCB Sampling Data indicating residual PCB materials remaining within building finishes at the 68% and 95% confidence level - See attachments for laboratory data and sample locations

Sample ID	Date	Floor	Sample Type	Sample Description	PCB Reporting limit	SD	AVG	0.68	0.95
M1	9.29.09	01st	Solid	White Marble	<0.79				
WG6	9.29.09	07th	Solid	White Granite	2.1	2.1	2.1		
BG6	9.29.09	07th	Solid	Black Granite	5.4	5.4	5.4		
M3	9.29.09	07th	Solid	White Marble	<0.60	0.6	0.6		
BG5	9.29.09	11th	Solid	Black Granite	<0.50	0.5	0.5		
WG4	9.29.09	11th	Solid	White Granite	<0.91	0.91	0.91		
WG2	9.29.09	12th	Solid	White Granite	1.9	1.9	1.9		
BG3	9.29.09	12th	Solid	Black Granite	<0.57	0.57	0.57		
M5	9.29.09	13th	Solid	White Marble	3.8	3.8	3.8		
						1.78	3.75	5.53	7.32



⁴ The first floor has a height of approximately twenty five feet above ground level.

5.0 Site Cleanup – Urban & Restec

Solid waste materials will be collected in 55 gallon drums and profiled. Hazardous waste must be tested and categorized for purposes of disposal. Restec will submit written evidence of approved testing (including copies of the actual chain-of-custody forms) and dispose of hazardous wastes within 90 (days) days following the completion of each phase of the project. Restec will submit written evidence that the disposal sites are approved for PCBs, lead and any other hazardous materials disposal by the USEPA and state or local regulatory agency(s). Uniform hazardous waste manifests prepared, signed and dated by an agent of the generator and the disposal site certifying the amount of hazardous materials delivered will be provided. The manifest must be provided to the Owner within twenty-five (25) working days after delivery.

Bulk PCB remediation waste removal. Dry bulk PCB waste will be removed as indicated in the general removal procedures immediately following this section. The cleanup process will incorporate the use of isopropyl alcohol.

- (1) No chlorinated solvents will be used.
- (2) All clean-up will be at ambient temp.
- (3) All processes will be either hand tools or mechanical in nature, with HEPA exhausted equipment to provide finish surfaces (See Bulk PCB Remediation Waste).
- (4) No external heat sources will be used for cleaning.
- (5) Solvent in the form of isopropyl alcohol will be used to clean surfaces. No liquid waste is anticipated as the solvents evaporate during the cleaning process, leaving only the residue accumulated on the cleaning rags. The cleaning rags and other wastes generated will be segregated, containerized and disposed of per § 761.61 PCB remediation waste and as described in the General Removal Procedures (below).
- (6) No solvent waste will be generated during the process. Bulk and particulate waste will be collected as indicated in the General Removal Procedures (below).

Bulk PCB remediation waste will be sent off-site for disposal at an authorized disposal site to be determined. Transport containers will comply with DOT Hazardous Materials Regulations (HMR) 49 CFR parts 171 through 180.

- (1) Dewatering: PCB waste will be dry and dewatering will not be needed.
- (2) Concentrations: Previous testing indicates PCB concentrations range from non-detect to a maximum of 189,000 ppm for caulking at metal to metal surfaces, primarily under windows.
 - a. Caulking waste from the first floor, which has a lower PCB concentration, ranging from non-detect to 61 ppm, will be segregated from caulking on upper floors.
 - b. 29 Sections of granite sheathing will be removed from the building as part of the renovation process. Previous testing indicates that the granite is slightly porous, having absorbed a concentration of approximately 5.57 ppm PCBs on upper floors, and < .79 ppm on the first floor⁵. Sections of granite sheathing scheduled for disposal will have PCB containing caulking removed; edges ground and wiped down with isopropyl alcohol prior to being containerized for disposal.
- (3) It is estimated that four waste streams, as follows, will be generated during the cleanup process:
 - a. Ground floor caulking;
 - b. second floor and above caulking;
 - c. granite slabs; and
 - d. cleaning rags / protective clothing waste.

Depending upon testing results undertaken as waste streams are generated, some waste streams may be combined or further segregated.

⁵ Note the caulking materials used on the first floor appear different from those on upper floors.

- (4) The waste streams will be profiled by Restec to determine the appropriate disposal in accordance with Section 3004 of RCRA, and applicable state regulations covering PCB disposal (TSCA). See work plan.
- (5) It is estimated that there will be a total of 30 - 55-gallon steel drums of dry waste. Waste will be shipped off site every 90 days. At least fifteen days prior to shipping, Restec will test and manifest waste. Testing will be in accordance with EPA Extraction Method 3500B / 3540C or Method 3500B/3550B and chemical analysis in accordance with EPA Method 8082 in SW-846.

5.01 RESTEC GENERAL REMOVAL PROCEDURES

1. Remove the bulk of the sealant and backer rod by means of a utility knife
2. Scrape as much of the residual sealant off the substrate as possible
3. On the granite and marble panels, grind the +/- 1/4" bond line where the new sealant will be adhering to the stone with a mini grinder and diamond blade
4. Wipe the surface clean and free of dust and contaminants with isopropyl alcohol.
5. All metal will receive a good scrub with a scratch pad and wiped clean with isopropyl alcohol after existing sealant has been removed
6. Measures will be taken to ensure that the existing sealant will be contained to the swing stage during the removal process
7. While grinding, vacuums with HEPA filters will be attached to grinders to collect the dust
8. Employees will be wearing a combination of respirators, gloves, and Tyvek style suits during certain phases of the removal and prep.

5.02 REMOVAL GENERAL

A. Bulk Removal of Sealant and Backer Rods Using Hand Tools:

- a. Employees will use Tyvek type suits, impermeable neoprene gloves and respirators with appropriate cartridges for the contaminants present.
- b. Personal monitoring will be conducted to characterize employees' exposure. Following personal exposure monitoring respiratory protection may be downgraded for this phase of the work.
- c. If multiple phases of work are conducted concurrently on a swing stage (i.e. bulk removal and grinding) all employees on that stage and or potentially affected stages will use PAPRs (full-face Powered Air Purifying Respirators).

B. Detailed Surface Grinding of Exterior Finishes:

- a. Employees will, as required by OSHA and the Work Plan (WP), be monitored utilizing personal monitoring practices and this will be done to characterize employee exposures. Both air and skin exposure sampling will be conducted.
- b. Use PAPR respirators during this process
- c. Use of electric grinders equipped with shrouds and HEPA vacuums to control particulate release. No removal will be performed on days where the wind is likely to cause release of particulates from the swing stage.

C. Surface Cleaning with alcohol.

- a. As required by OSHA and the WP personal monitoring will be conducted to characterize employees' exposure to PCB's and lead.
- b. Following personal exposure monitoring, respiratory protection maybe downgraded.
- c. Restec personnel will use NIOSH approved half-faced respirators for the set-up and teardown of the containment areas. Restec will use NIOSH approved PAPRs for the gross removal of caulking and sealants and any power tool usage.

- d. If joint work is conducted on a swing stage (i.e. grinding and solvent cleanup), all employees on that stage and or potentially affected stages will use PAPRs. Personnel air sampling will be conducted for lead and PCB exposure. The sampling will continue until a representative sampling has been completed for each month. Personal skin wipe sampling will also be conducted to determine PPE effectiveness.

D. Swing Stage

- a. Enclosure controls See WP 1.2.F COMPLIANCE AND INTENT. Restec will not be installing critical barriers on the windows, but will be installing them over areas that are subject to interior leakage within the removal area.
- b. Apply a continuous band of adhesive tape at the interface of the swing stage and building wall to control the escape of particulate from the work area.
- c. As needed, but not less than two times per day and at the end of the shift, HEPA Vacuum the swing stage enclosure.
- d. Restec will immediately repair/replace damaged polyethylene drop cloths as appropriate to avoid particulate release. Minor tears or pinholes will be repaired with duct tape.

E. Entry and Exit Areas - Regulated Area

- a. Access to work areas will be through a regulated area generally located at the entry to the swing stage.
- b. Regulated areas will be designated with danger tape and delineators and have polyethylene drop sheets. Restec will install signage on the caution tape designating the area as having "Overhead Work", PCB and lead Hazard. Restec will have personnel on the ground (chip chaser) monitoring the area underneath the work area as well as collecting and HEPA vacuuming any visible debris.
- c. Workers will decontaminate and change and store clothing within the regulated area. Restec will have a wash station located on the roof for decontamination at the completion of the shifts. The wash station will include first aid materials, water, and soap and disposal bags for disposal for the consumable PPE. The wash station shall include an area for the changing in and out of PPE. Restec will be installing engineering controls within the swing stage baskets. Restec will wrap the stage basket with 6 mil poly. Restec will add black "mesh-style" netting above the basket rails, supported by an appropriate framing. The mesh netting will serve the purpose of controlling emissions while not acting as a sail and therefore creating an unsafe condition for Restec personnel.
- d. Regulated areas will be used for equipment storage and temporary storage of waste materials.

E Equipment Cleaning at the Completion of the Project

- a. At the completion of the project all salvaged equipment will be cleaned and tested. Disposables including but not limited to razor knives, scrapers, etc. will be categorized, drummed and disposed of as PCB containing waste.
- b. Equipment will be cleaned and wipe tested. Testing will entail standard wipe test protocols as defined in 40 CFR 761.123 using a hexane solution. Analysis will be via EPA 8082. That equipment that cannot be adequately cleaned will be disposed of as PCB containing waste.

6.0 Cleanup Verification

Attachment D - Based upon testing results and the potential for fracturing granite sheets for the purposes of chip sampling, RGA recommends that the final determinations of "clean surfaces" be determined based upon surface wipe results. The sampling strategy will be based upon a sampling grid that can be extended from an EPA Sampling Document for grid sampling of soils in the field. It is a statistically valid sampling protocol (Field Manual for Grid Sampling of PCB Spill Sites to Verify Cleanup; EPA-560/5-85-026, August, 1985 & Wipe Sampling & EPA PCB Spill Cleanup Policy; April, 1991). It also introduces a technically random sampling scheme based upon a random number generator and assignment of the areas to be sampled with unique identifiers. Lastly, the results of wipe samples taken will be documented to the reporting limits of the method, which means that results will be reported down to ~0.25 ug/cm². This should give EPA confidence in the actual values of the wipe samples well below the regulatory limits established in the regulation.

6.01 Replacement Caulking

The replacement caulking is a silicone based material known as SilPruf. It does not contain PCB's. Silicones are somewhat permeable and may reabsorb some residual PCB's. The amount of PCB's that would be reabsorbed would be dependent upon the amount (ppm) remaining within the substrates and the longevity of the caulking at that substrate. Assuming that the silicone caulking will remain 50+ years in-situ, there will be no change in exposure assessment for the building based upon current criteria.

Attachment A

Bulk Caulking Sampling Data Summary

TABLE 1 Bulk Caulking Sampling Data - See Appendix 1 Laboratory data and sample locations

Sample Number	Date	Floor	Description	PCB Detection Limit ppm	PCB Reporting Limit ppm	Arochlor Type
9081-BM 1	6.09.09	01ST	Black Granite	<5	0.025	
9081-BM 10	6.09.09	01ST	Black Granite	61	0.025	1
9081-BM 11	6.09.09	01ST	Black Granite	<10	0.025	
9081-BM 2	6.09.09	01ST	Black Granite	6.1	0.025	1
9081-BM 3	6.09.09	01ST	Black Granite	13	0.025	1
9081-BM 4	6.09.09	01ST	Black Granite	9.5	0.025	1
9081-BM 5	6.09.09	01ST	Black Granite	1.6	0.025	1
9081-BM 6	6.09.09	01ST	Black Granite	<10	0.025	
9081-BM 7	6.09.09	01ST	Black Granite	<25	0.025	
9081-BM 8	6.09.09	01ST	Black Granite	<25	0.025	
9081-BM 9	6.09.09	01ST	Black Granite	<10	0.025	
9081-WM 1	6.08.09	01ST	White Marble	8.4	0.025	1
9081-WM 10	6.08.09	01ST	White Marble	18	0.025	1
9081-WM 11	6.08.09	01ST	White Marble	12	0.025	1
9081-WM 2	6.08.09	01ST	White Marble	<50	0.025	
9081-WM 3	6.08.09	01ST	White Marble	<100	0.025	
9081-WM 4	6.08.09	01ST	White Marble	<50	0.025	
9081-WM 5	6.08.09	01ST	White Marble	3.1	0.025	1
9081-WM 6	6.08.09	01ST	White Marble	21	0.025	1
9081-WM 7	6.08.09	01ST	White Marble	<5	0.025	
9081-WM 8	6.08.09	01ST	White Marble	<5	0.025	
9081-WM 9	6.08.09	01ST	White Marble	22	0.025	1
9081-PCB-1	5.20.09	02nd	White Caulk	25	0.025	1
9081-PCB-2	5.20.098	02nd	Black sealant	12000	0.025	1
PCB-17	7.21.09	04th	Black Sealant	720	0.025	1
PCB-26	7.21.09	05th	Black Sealant - Panel	180000	0.025	1
PCB-39	7.21.09	05th	Black Sealant	2200	0.025	1
PCB-40	7.21.09	05th	Black Sealant	164	0.025	1, 2
100-PCB-10	6.05.09	07th	Caulk metal	38000	0.025	1
100-PCB-3	6.04.09	07th	Black Sealant	8800	0.025	1, 2
100-PCB-4	6.04.09	07th	Black Sealant	18000	0.025	1
100-PCB-9	6.05.09	07th	Caulk metal	9400	0.025	1
9081-CVM-2	6.09.09	07th	Continuous vertical Mullion	440	0.025	1
9081-CVM-3	6.09.09	07th	Continuous vertical Mullion	910	0.025	1
9081-CVM-5	6.09.09	07th	Continuous vertical Mullion	2700	0.025	1
9081-CVM-6	6.09.09	07th	Continuous vertical Mullion	5200	0.025	1, 2
9081-CVM-9	6.09.09	07th	Continuous vertical Mullion	270	0.025	1
9081-WGP-9	6.09.09	07th	White Granite Panel	18	0.025	1
PCB-37	7.27.09	08th	Black Sealant	13000	0.025	1

TABLE 1 Bulk Caulking Sampling Data - See Appendix 1 Laboratory data and sample locations

Sample Number	Date	Floor	Description	PCB Detection Limit ppm	PCB Reporting Limit ppm	Aroclor Type
PCB-38	7.27.09	08th	Black Sealant	500	0.025	1, 2
PCB-9	7.21.09	08th	Black Sealant	40	0.025	1
9081-CVM-1	6.09.05	09TH	Continuous vertical Mullion	230	0.025	1
9081-CVM-4	6.09.05	09TH	Continuous vertical Mullion	2500	0.025	1
9081-CVM-7	6.09.05	09TH	Continuous vertical Mullion	190	0.025	1
9081-CVM-8	6.09.05	09th	Continuous vertical Mullion	250	0.025	1
9081-WGP-2	6.09.05	09TH	White Granite Panel	23	0.025	1
9081-WGP-6	6.09.05	09TH	White Granite Panel	40	0.025	
PCB-25	7.21.09*	10th	Black Sealant - Metal panel	189000	0.025	1, 2
PCB-31	7.27.09	11th	Black Sealant	23000	0.025	1
PCB-32	7.27.09	11th	Black Sealant	84	0.025	1
PCB-33	7.27.09	11th	White Caulk/Black Caulk	28	0.025	1
PCB-34	7.27.09	11th	White Caulk/Black Caulk	21	0.025	1
PCB-35	7.27.09	11th	Black Sealant	4700	0.025	1, 2
PCB-36	7.27.09	11th	Black Sealant	88	0.025	1, 2
PCB-5	7.21.09*	12th	Gray Sealant	1300	0.025	1
100-PCB-5	6.04.09	13th	Caulk metal window	15000	0.025	1
100-PCB-6	6.04.09	13th	Caulk metal	15000	0.025	1
100-PCB-7	6.05.09	13th	Caulk metal	15000	0.025	1
100-PCB-8	6.05.09	13TH	Caulk metal	29000	0.025	1
9081-WGP-1	6.09.09	13TH	White Granite Panel	230	0.025	1
9081-WGP-3	6.09.09	13th	White Granite Panel	12	0.025	1
9081-WGP-4	6.09.09	13TH	White Granite Panel	37	0.025	1
9081-WGP-5	6.09.09	13TH	White Granite Panel	37	0.025	1
9081-WGP-7	6.09.09	13TH	White Granite Panel	54	0.025	1
9081-WGP-8	6.09.09	13TH	White Granite Panel	38	0.025	1
PCB-3	7.21.09	14th	Black Sealant	93	0.025	1
PCB-30	7.27.09	14th	Black Sealant	1000	0.025	1
100-PCB-1	6.04.09	UNK	Caulk	150	0.025	1
100-PCB-2	6.04.09	UNK	Caulk	14	0.025	1
Aroclor 1254 - 1						
Aroclor 1260 - 2						
Bulk sample analysis were completed using EPA method 8082						

Attachment B

Planter Soil Samples

TABLE 2 Planter Soil Sampling Data - See Appendix 2 Laboratory data and sample locations

Sample Number	Date	Floor	Description	PCB Detection Limit ppm	PCB Reporting Limit ppm	Arochlor Type
235926	12.7.09	Ground	East Planer 1	<0.05	0.025	
235927	12.7.10	Ground	East Planer 2	1.1	0.025	1
235928	12.7.11	Ground	East Planer 3	0.44	0.025	1, 2
235929	12.7.12	Ground	East Planer 4	<0.05	0.025	
235930	12.7.13	Ground	East Planer 5	0.31	0.025	1
235931	12.7.14	Ground	East Planer 6	0.32	0.025	1
235932	12.7.15	Ground	East Planer 7	0.29	0.025	1, 2
235933	12.7.16	Ground	East Planer 8	ND	0.025	
235934	12.7.17	Ground	East Planer 9	0.095	0.025	1
Aroclor 1254 - 1						
Aroclor 1260 - 2						
Bulk sample analysis were completed using EPA method 8082						

Attachment C

Pilot study - PCB Containing Materials Collected as Part of the Cleanup Testing

TABLE 3.0 Pilot Study Stone Chip PCB Sampling Data - See appendices for laboratory data and sample locations

No.	Sample ID	Date	Floor	Sample Type	Sample Description	PCB Reporting limit	PCB Detection limit	Units	Aroclor Type
1	M1	9.29.09	01st	Solid	White Marble	<0.79	0.025	ppm	
2	WG6	9.29.09	07th	Solid	White Granite	2.1	0.025	ppm	1
3	BG6	9.29.09	07th	Solid	Black Granite	5.4	0.025	ppm	1, 2
4	M3	9.29.09	07th	Solid	White Marble	<0.60	0.025	ppm	
5	BG5	9.29.09	11th	Solid	Black Granite	<0.50	0.025	ppm	
6	WG4	9.29.09	11th	Solid	White Granite	<0.91	0.025	ppm	
7	WG2	9.29.09	12th	Solid	White Granite	1.9	0.025	ppm	1
8	BG3	9.29.09	12th	Solid	Black Granite	<0.57	0.025	ppm	
9	M5	9.29.09	13th	Solid	White Marble	3.8	0.025	ppm	1

TABLE 3.1 Pilot Study Wipe PCB Sampling Data - See appendices for laboratory data and sample locations

No.	Sample ID	Date	Floor	Sample Type	Sample Description	PCB Reporting limit	PCB Detection limit	Units	Aroclor Type
	MW1	9.29.09	01st	Wipe	White Marble	ND	0.25	ug/100cm2	
	BG1	9.29.09	01st	Wipe	Black Granite	ND	0.25	ug/100cm2	
	WG5	9.29.09	07th	Wipe	White Granite	ND	0.25	ug/100cm2	
	M2	9.29.09	07th	Wipe	White Marble	ND	0.25	ug/100cm2	
	BG4	9.29.09	11th	Wipe	Black Granite	ND	0.25	ug/100cm2	
	MC1	9.29.09	11th	Wipe	Metal Column	ND	0.25	ug/100cm2	
	WG3	9.29.09	11th	Wipe	White Granite	ND	0.25	ug/100cm2	
	BG2	9.29.09	12th	Wipe	Black Granite	ND	0.25	ug/100cm2	
	WG1	9.29.09	12th	Wipe	White Granite	ND	0.25	ug/100cm2	
	M4	9.29.09	13th	Wipe	White Marble	ND	0.25	ug/100cm2	

TABLE 3.2 Pilot Study Grout PCB Sampling Data - See appendices for laboratory data and sample locations

No.	Sample ID	Date	Floor	Sample Type	Sample Description	PCB Reporting limit	PCB Detection limit	Units	Aroclor Type
	GR3	9.29.09	13th	Solid	Grout	22	0.025	ppm	1
	GR2	9.29.09	08th	Solid	Grout	23.8	0.025	ppm	1,2
	GR1	9.29.09	11th	Solid	Grout	21	0.025	ppm	1
Aroclor 1254 - 1									
Aroclor 1260 - 2									

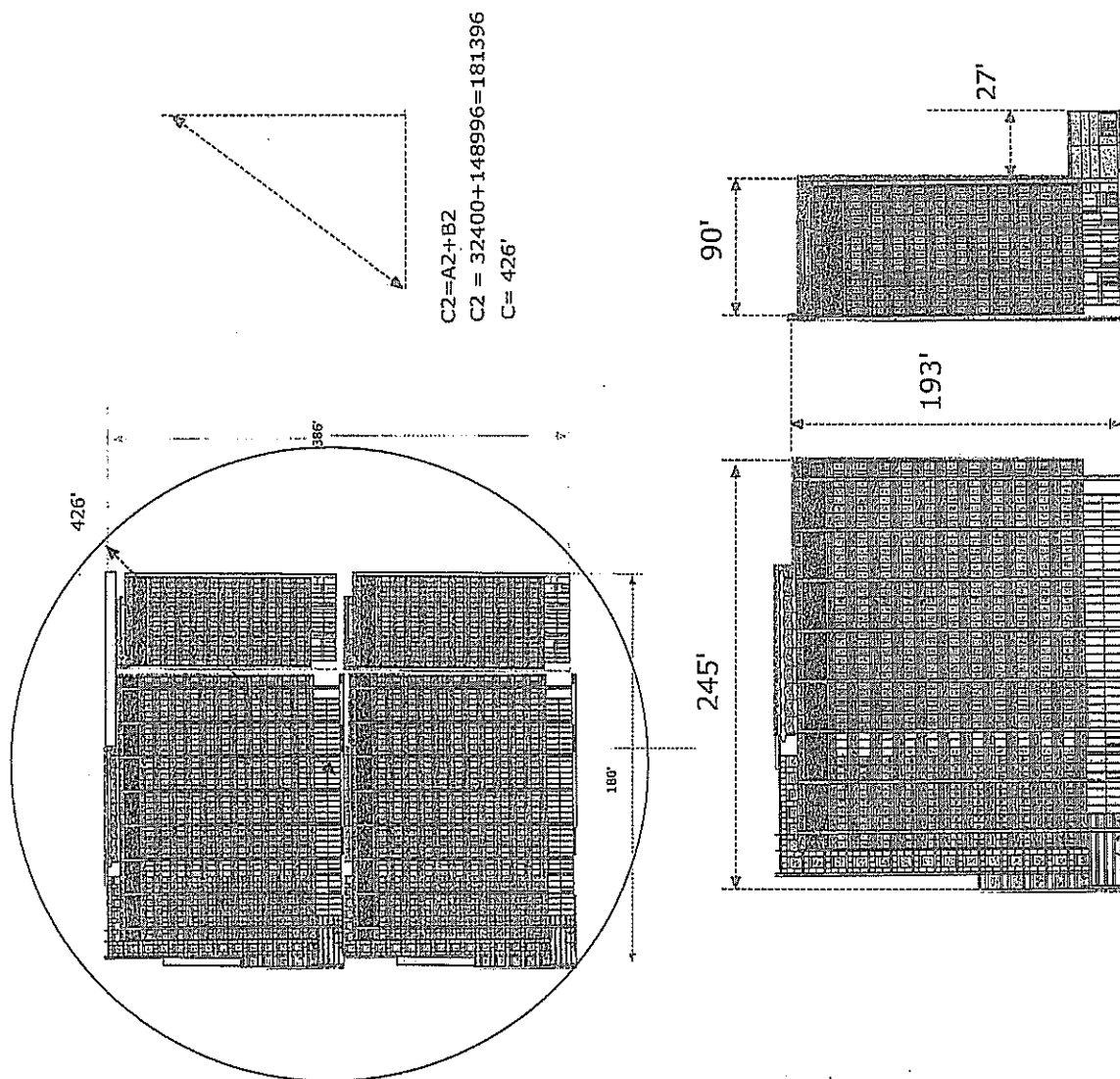
Bulk sample analysis were completed using EPA method 8082

Wipe-100 cm2 sampled with a glass wool pad saturated with a hexane solution EPA method 8082

Attachment D

Cleanup Verification - Grid Sampling EPA 560/5-86017

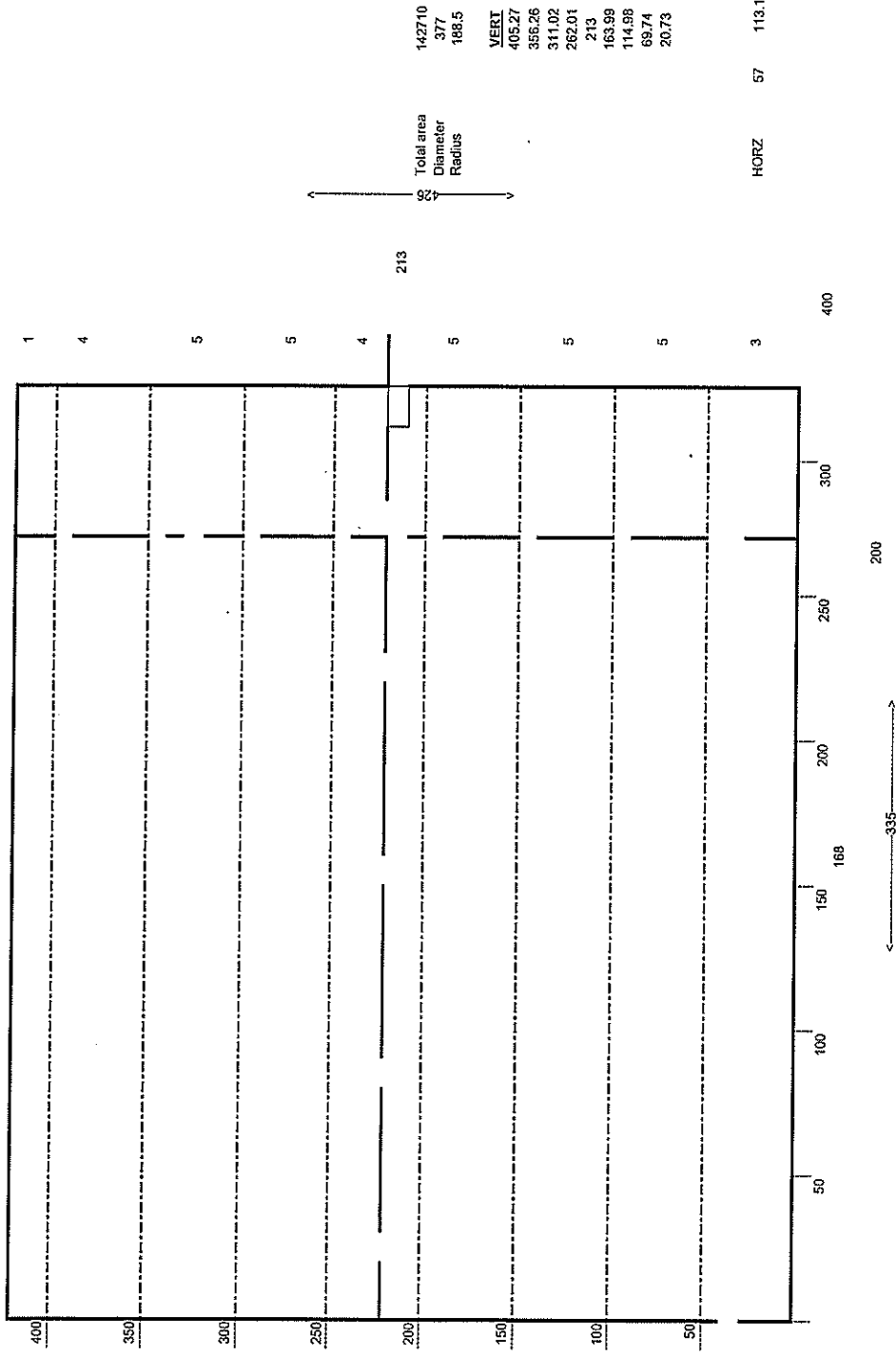
100 CALIFORNIA
DRAWING
SAMPLING PLAN



100 California Street Building Facade Repairs PCB Containing Materials

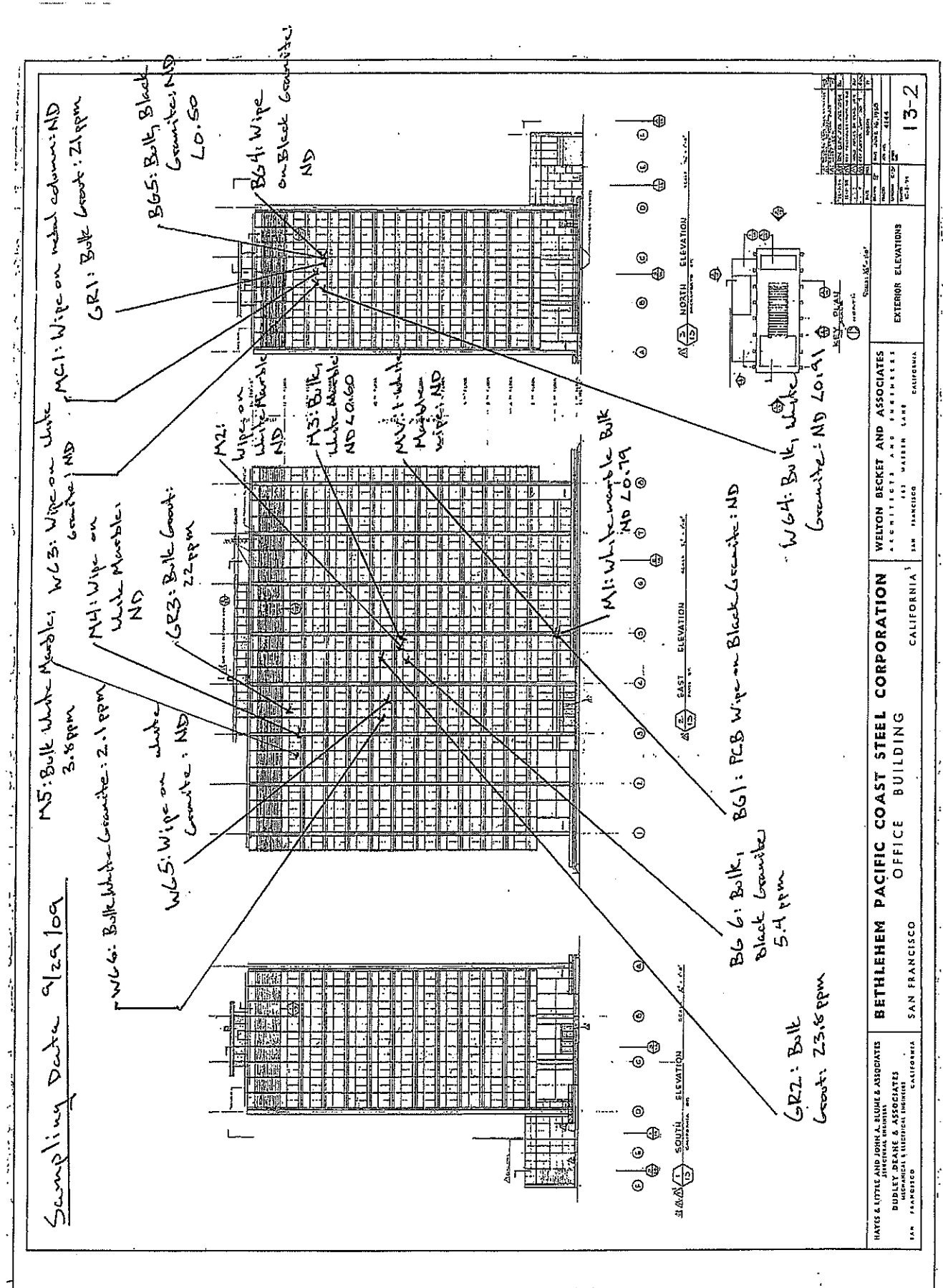
6.0 Cleanup Verification
100 CALIFORNIA

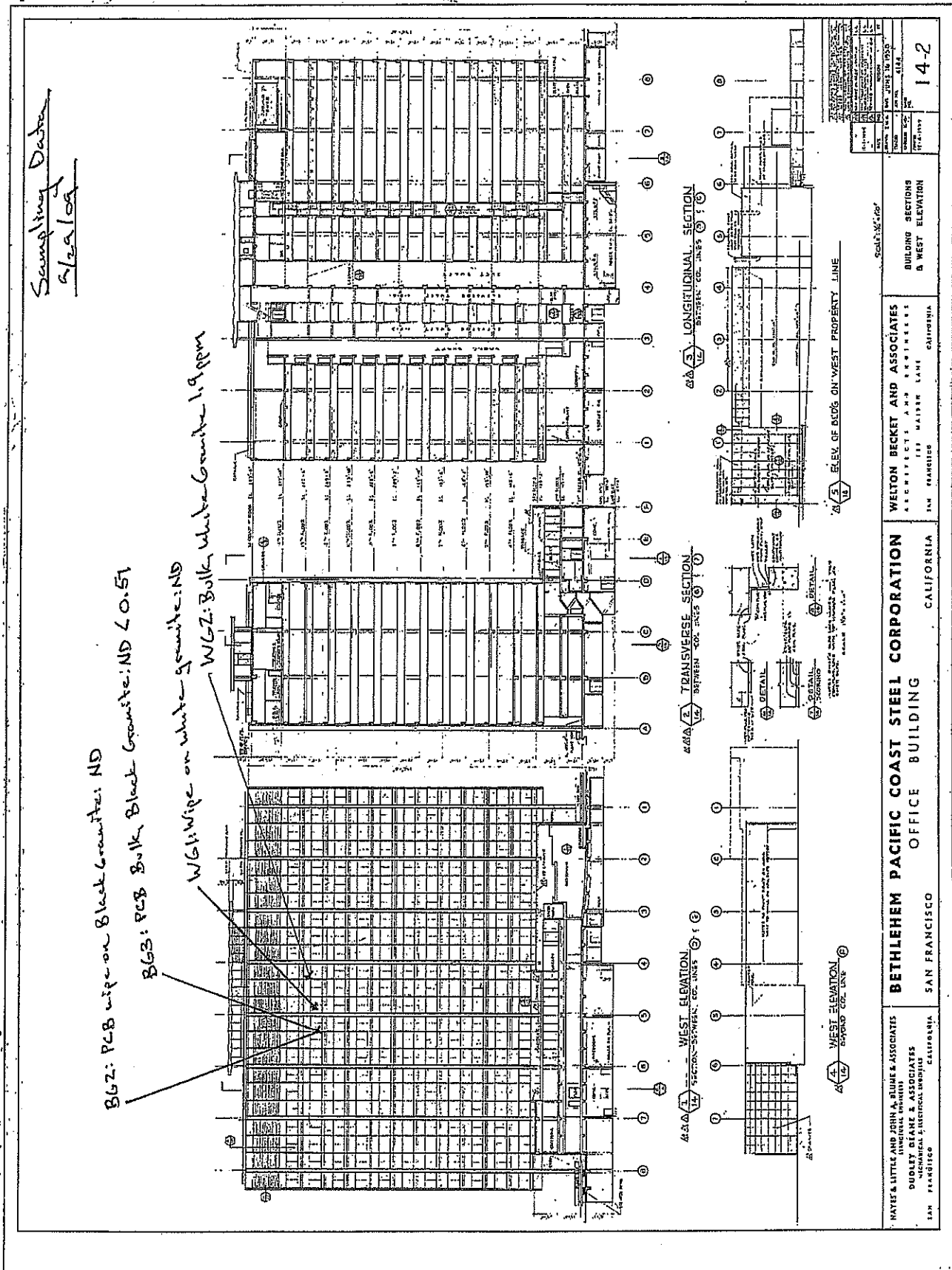
Grid Sampling of PCB's
EPA 5605-88-017
May 1996



Attachment E

Sample Locations





PCB Sampling: July Samples Archived then Analyzed

PCB 9: Seam between Black Granite Panels: 40 ppm

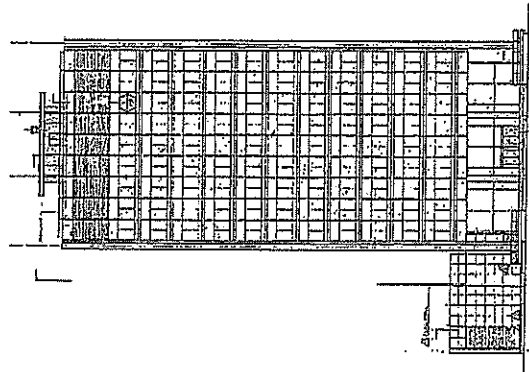
PCB 3: Seam between black granite panels: 93 ppm

PCB 5: Gray sealant & grouters at window frame: 1300 ppm

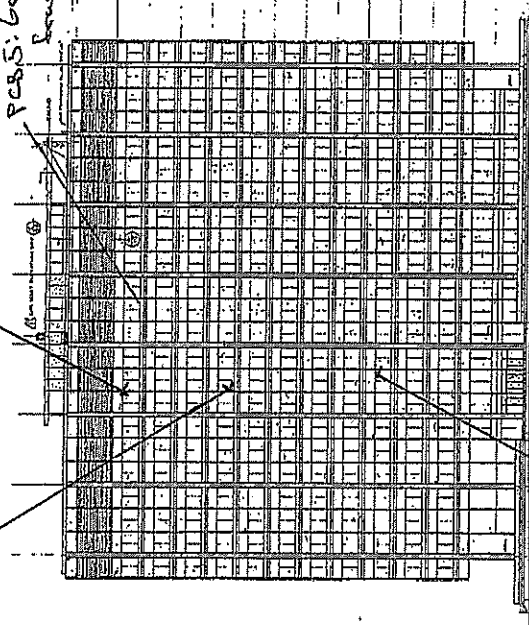
PCB 25: Black sealant around window panels: 189,000 ppm

PCB 26: Black sealant around window panels: 189,000 ppm

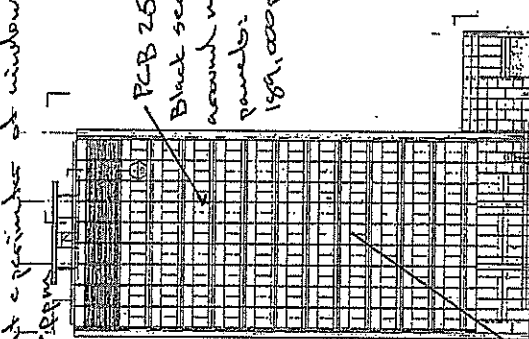
PCB 17: Black sealant on metal column: 720 ppm



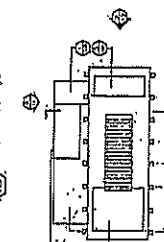
13 SOUTH ELEVATION SCALE 1/8" = 1'-0"



12 EAST ELEVATION SCALE 1/8" = 1'-0"



11 NORTH ELEVATION SCALE 1/8" = 1'-0"




NO.	DESCRIPTION	DATE	BY
1	REVISION		
2	REVISION		
3	REVISION		
4	REVISION		
5	REVISION		
6	REVISION		
7	REVISION		
8	REVISION		
9	REVISION		
10	REVISION		

<p>HAYES & LITTLE AND JOHN A. BLUMER & ASSOCIATES BUDLEY, BEANE & ASSOCIATES BETHLEHEM & HETTINGER ENGINEERS</p> <p>SAN FRANCISCO CALIFORNIA</p>	<p>BETHLEHEM PACIFIC COAST STEEL CORPORATION OFFICE BUILDING</p> <p>CALIFORNIA</p>	<p>WELTON BECKETT AND ASSOCIATES ARCHITECTS AND ENGINEERS 100 CALIFORNIA STREET, SUITE 100 SAN FRANCISCO, CALIFORNIA 94111</p>	<p>EXTERIOR ELEVATIONS</p> <p>13-2</p>
--	--	--	--

Attachment G

Bulk Sampling Data

 McC Campbell Analytical, Inc. "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269	
RGA Environmental 1466 66th Street Emeryville, CA 94608	Client Project ID: #BRES 21720; 100 California Street	Date Sampled: 07/21/09	
		Date Received: 07/22/09	
	Client Contact: Bob Gils	Date Reported: 07/30/09	
	Client P.O.:	Date Completed: 07/30/09	

WorkOrder: 0907563

July 30, 2009

Dear Bob:

Enclosed within are:

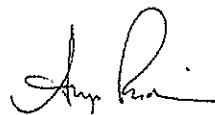
- 1) The results of the 9 analyzed samples from your project: #BRES 21720; 100 California Street
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.


If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,




Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

 McC Campbell Analytical, Inc. "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269			
RGA Environmental 1466 66th Street Emeryville, CA 94608		Client Project ID: #BRES 21720; 100 California Street		Date Sampled: 07/21/09	
		Client Contact: Bob Gils		Date Received: 07/22/09	
		Client P.O.:		Date Extracted: 07/22/09	
				Date Analyzed 07/28/09	
Polychlorinated Biphenyls (PCBs) Aroclors by GC-ECD* Extraction Method: SW3550C Analytical Method: SW8082 Work Order: 0907563					
Lab ID	0907563-003A	0907563-007A	0907563-011A		Reporting Limit for DF =1
Client ID	PCB-3	PCB-9	PCB-17		
Matrix	S	S	S		
DF	50	20	200		
Compound	Concentration			mg/kg	ug/L
Aroclor1016	ND<27	ND<12	ND<140	0.025	NA
Aroclor1221	ND<27	ND<12	ND<140	0.025	NA
Aroclor1232	ND<27	ND<12	ND<140	0.025	NA
Aroclor1242	ND<27	ND<12	ND<140	0.025	NA
Aroclor1248	ND<27	ND<12	ND<140	0.025	NA
Aroclor1254	93	40	720	0.025	NA
Aroclor1260	ND<27	ND<12	ND<140	0.025	NA
PCBs, total	93	40	720	0.025	NA
Surrogate Recoveries (%)					
%SS:	---	---	---		
Comments	h4	h4	h4		
* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L. ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis. # surrogate diluted out of range or surrogate coelutes with another peak. h4) sulfuric acid permanganate (EPA 3665) cleanup					

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager

 McC Campbell Analytical, Inc. "When Quality Counts"		1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mcccampbell.com E-mail: main@mcccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269			
RGA Environmental 1466 66th Street Emeryville, CA 94608		Client Project ID: #BRES 21720; 100 California Street		Date Sampled: 07/21/09 Date Received: 07/22/09 Date Extracted: 07/22/09 Date Analyzed: 07/24/09-07/27/09	
CAM / CCR 17 Metals*					
Lab ID	0907563-001A	0907563-005A	0907563-009A	0907563-013A	Reporting Limit for DF =1; ND means not detected above the reporting limit
Client ID	PCB-1	PCB-7	PCB-13	PCB-19	
Matrix	S	S	S	S	S
Extraction Type	TOTAL	TOTAL	TOTAL	TOTAL	mg/Kg
ICP-MS Metals, Concentration*					
Analytical Method: 6020A		Extraction Method: SW3050B		Work Order: 0907563	
Dilution Factor	1	1	1	1	1
Antimony	ND<0.76	ND<0.94	ND	ND	0.5
Arsenic	ND<0.76	ND<0.94	ND	ND	0.5
Barium	ND<7.6	130	780	ND	5.0
Beryllium	ND<0.76	ND<0.94	ND	ND	0.5
Cadmium	0.47	1.4	ND	0.73	0.25
Chromium	3.6	55	0.65	ND	0.5
Cobalt	ND<0.76	2.4	ND	ND	0.5
Copper	1.6	31	0.71	0.61	0.5
Lead	4.5	94	2.4	16	0.5
Mercury	ND<0.076	0.10	0.084	ND	0.05
Molybdenum	ND<0.76	ND<0.94	ND	ND	0.5
Nickel	2.0	16	ND	ND	0.5
Selenium	ND<0.76	ND<0.94	ND	ND	0.5
Silver	ND<0.76	ND<0.94	ND	ND	0.5
Thallium	ND<0.76	ND<0.94	ND	ND	0.5
Vanadium	ND<0.76	ND<0.94	ND	ND	0.5
Zinc	ND<7.6	81	5.1	ND	5.0
%SS:	104	144	141	136	
Comments					
a7	c1,a7	c1	c1		
*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter. # means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument. TOTAL = acid digestion. WET = Waste Extraction Test (STLC). DI WET = Waste Extraction Test using de-ionized water. a7) reporting limit raised due to insufficient sample amount c1) estimated value due to high surrogate recovery, caused by matrix interference.					



McCampbell Analytical, Inc.


"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701

Web: www.mccampbell.com E-mail: main@mccampbell.com

Telephone: 877-252-9262 Fax: 925-252-9269

RGA Environmental		Client Project ID: #BRES 21720; 100 California Street		Date Sampled: 07/21/09		
1466 66th Street				Date Received 07/22/09		
		Client Contact: Bob Gils		Date Extracted 07/22/09		
Emeryville, CA 94608		Client P.O.:		Date Analyzed 07/24/09-07/27/09		
CAM / CCR 17 Metals*						
Lab ID	0907563-015A	0907563-017A			Reporting Limit for DF =1 ND means not detected above the reporting limit	
Client ID	PCB-21	PCB-23				
Matrix	S	S				
Extraction Type	TOTAL	TOTAL				
					S	W
					mg/Kg	mg/L
ICP-MS Metals, Concentration*						
Analytical Method: 6020A		Extraction Method: SW3050B		Work Order: 0907563		
Dilution Factor	1	1			1	1
Antimony	ND	ND<0.71			0.5	NA
Arsenic	ND	ND<0.71			0.5	NA
Barium	160	1100			5.0	NA
Beryllium	ND	ND<0.71			0.5	NA
Cadmium	1.3	ND<0.36			0.25	NA
Chromium	63	1.1			0.5	NA
Cobalt	2.7	ND<0.71			0.5	NA
Copper	54	1.9			0.5	NA
Lead	150	6.3			0.5	NA
Mercury	0.13	0.10			0.05	NA
Molybdenum	0.78	ND<0.71			0.5	NA
Nickel	16	0.97			0.5	NA
Selenium	ND	ND<0.71			0.5	NA
Silver	ND	ND<0.71			0.5	NA
Thallium	ND	ND<0.71			0.5	NA
Vanadium	0.70	0.73			0.5	NA
Zinc	110	12			5.0	NA
%SS:	121	140				
Comments	c1,a7					
*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.						
# means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.						
TOTAL = acid digestion.						
WET = Waste Extraction Test (STLC).						
DI WET = Waste Extraction Test using de-ionized water.						
a7) reporting limit raised due to insufficient sample amount						
c1) estimated value due to high surrogate recovery, caused by matrix interference.						



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PM - B. Gills
 bgills@rgaenv.com
 fax: 510.899.7060

Environmental SAMPLE DATA SHEET

PAGE 2 OF 5

Project Name/Address: 100 California Street PO #:

RGA Project #: BRES21720 Sampled By: McCampbell Sampling Date: 7-21-09

Sample(s) Sent To: ☐ EM Lab ☒ Other: McCampbell Turnaround Time: Rush 24-Hr Standard

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM) Shipping Requirements: Priority Standard Overnight 2-Day

ADDITIONAL REPORT RECIPIENT(S):

Sample I.D.	Type	Sample Description				Sample Location	Time (min)	Flow Rate (LPM)	Volume (L) or Area (cm ²)	Entrance (CM17)	Direct Exhaust (R2)	Analysis
		Air	Bulk	Swab	Tape Lift							
PCB-8						8th Fl E side (1)						X HOLD
PCB-9						8th Fl E side (3)					X	
PCB-10						8th Fl E side (4)						
PCB-11						8th Fl E side (5)						
PCB-12						4th Fl E side (1)						X
PCB-13						4th Fl E side (3)				X		
PCB-14						4th Fl E side (5)						

Relinquished By: Mike B Signature: [Signature] Date/Time: 7/21/09

Received By: Plante Signature: [Signature] Date/Time: 7/21/09

Relinquished By: Signature: Date/Time:

Received By: Marina Venegas Signature: [Signature] Date/Time: 7/22/09 0800



PM - S. Steiner
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fax: 510.899.7053

PM - K. Pilgrim
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fax: 510.899.7053

PM - B. Weisbrod
brent.weisbrod@rgaenv.com
fax: 510.899.7062

PM - T. Kettchick
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fax: 510.899.7070

PM - B. Gills
bob@rgaenv.com
fax: 510.899.7060

Environmental SAMPLE DATA SHEET

PAGE 3 OF 5

Project Name/Address: 100 California Street

PO #:

RGA Project #: BRES21720 Sampled By: MB

Sample(s) Sent To ☐ EM Lab ☒ Other: McCampbell

Sampling Date:


Turnaround Time: 24-Hr Rush Standard

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)
ADDITIONAL REPORT RECIPIENT(S):

Shipping Requirements: Priority Standard Overnight 2-Day

Sample I.D.	Type	Sample Description			Sample Location			Time (min)	Flow Rate (LPM)	Volume (L) or Area (cm ²)	Culture (CAM17)	Direct Exam PCBs	Analysis
		Air	Bulk	Swab	Tape Lift								
<u>PCB-16</u>						<u>11th Fl E side (9)</u>							
<u>PCB-17</u>						<u>4th Fl E side (9)</u>							
<u>PCB-18</u>						<u>4th Fl E side (10)</u>							
<u>PCB-19</u>						<u>12th Fl E side (10)</u>							
<u>PCB-20</u>						<u>14th Fl N side (10)</u>							
<u>PCB-21</u>						<u>14th Fl N side (10)</u>							
						<u>10th Fl N side (9)</u>							

Relinquished By: MKB Signature: [Signature] Date/Time: 7/21/09
 Received By: Planta Signature: [Signature] Date/Time: 7/21/09
 Relinquished By: Maria Venegas Signature: [Signature] Date/Time: 7/21/09
 Received By: Maria Venegas Signature: [Signature] Date/Time: 7/21/09 0800

	ENVIRONMENTAL	PM – S. Steiner steiff@rgaenv.com fax: 510.899.7051	PM – K. Schroeter karrn@rgaenv.com fax: 510.899.7053	PM – K. Pilgrim ken@rgaenv.com fax: 510.899.7053
PM – B. Weisbrod brent.weisbrod@rgaenv.com fax: 510.899.7062	PM – T. Kaitchee teddi@rgaenv.com fax: 510.899.7070	PM – B. Gills bob@rgaenv.com fax: 510.899.7050		

Project Name/Address: 100 California Street
 RGA Project #: BRES21720 Sampled By: MB
 Sample(s) Sent To ☐ EM Lab ☒ Other: McCambell
 Sampling Date: 7/21/09 Turnaround Time: 24-Hr Standard
 Shipping Requirements: Priority Standard Overnight 2-Day
 FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)
 ADDITIONAL REPORT RECIPIENT(S):

Sample I.D.	Type	Sample Description				Sample Location	Time (min)	Flow Rate (LPM)	Volume (L) or Area (cm ²)	Culture (CAM17)	Direct Extn (CB)	Analysis
		Air	Bulk	Swab	Tape Lift							
PCB-22						10 th Fl N side (1)						X
PCB-23						10 th Fl N side (3)				X		
PCB-24						10th Fl N side (1)						
PCB-25						10 th Fl N side (ext) (11)						X
PCB-26						5 th Fl N side (11)						X
PCB-27						5 th Fl N side (4)						X
PCB-28						5th Fl N side (1)						

Relinquished By: <u>MKB</u>	Signature: <u>[Signature]</u>	Date/Time: <u>7/2/09</u>
Received By: <u>LPanta</u>	Signature: <u>[Signature]</u>	Date/Time: <u>7/2/09</u>
Relinquished By: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Date/Time: <u>7/2/09</u>
Received By: <u>[Signature]</u>	Signature: <u>[Signature]</u>	Date/Time: <u>7/2/09</u>



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fax: 510.899.7053

PM - B. Weisbrod
 prent.weisbrod@ira
 fax: 510.899.7062

PM - T. Kattchee
tedd@rqaeny.com
fax: 510.899.7070

PM - B. Gils
bob@rgaenv.com
fax: 510.899.7050

Environmental SAMPLE DATA SHEET

PAGE 5 OF 5

Project Name/Address: 100 California Street

PO #: _____

RGAs Project #: DKES2720 Sampled By: _____ Sampling Date: _____

Sample(s) Sent To ☐ EM Lab ☐ Other: ☐ Turnaround Time: Rush ☐ 24-Hr ☐ Standard

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)
ADDITIONAL REPORT RECIPIENT(S): _____

Shipping Requirements: _____ Priority _____ Standard Overnight _____ 2-Day _____

[illegible]

Relinquished By: W. L. S. Signature: [Signature] Date/Time: 7/2/07

Received By: V. Das Date/Time: 7/1
Signature: [Signature] Date/Time: 7/1

Relinquished By: [Signature] Date/Time: 7/21/09

Signature: [Signature] Date/Time: 7/21/09

Received By: Maria Vengas



McCampbell Analytical, Inc.

"When Quality Counts"

1534 Wilbur - Pass Road, Folsom, CA 95635-1701
Web: www.mccampbell.com Email: main@mccampbell.com
Telephone: 916-232-9262 Fax: 916-232-9269

WORK ORDER SUMMARY

Client Name: RGA ENVIRONMENTAL
Project: #BRES 21720; 100 California Street
Comments:

QC Level: LEVEL 2
Client Contact: Bob Gils
Contact's Email: bob@rgaenv.com

Work Order: 0907563
Date Received: 07/22/09

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold SubOut
0907563-001A	PCB-1	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-002A	PCB-2	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-003A	PCB-3	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-004A	PCB-5	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-005A	PCB-7	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-006A	PCB-8	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-007A	PCB-9	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-008A	PCB-12	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-009A	PCB-13	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-010A	PCB-16	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-011A	PCB-17	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-012A	PCB-18	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-013A	PCB-19	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-014A	PCB-20	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-015A	PCB-21	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-016A	PCB-22	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-017A	PCB-23	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		
0907563-018A	PCB-25	Solid	EPA 8082 (PCB Only)	1	Bag	7/21/2009	5 days		

Bottle Legend:

Bag

Change Assessment Robert E. Gils Robert E. Gils 7-22-09



McCampbell Analytical, Inc.

"When Quality Counts"

1534 Willow Park Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com Email: mca@mcampbell.com
Telephone: 877-253-9762 Fax: 925-253-9269

WORK ORDER SUMMARY

Client Name: RGA ENVIRONMENTAL

Project: #BRES 21720, 100 California Street

Comments:

QC Level: LEVEL2

Client Contact: Bob Gils

Contact's Email: bob@rgaenv.com

Work Order: 0907563

Date Received: 07/22/09

☐ Write On ☐ ELP ☐ Excel ☐ Fax ☒ Email ☐ Hard Copy ☐ Third Party ☐ J-Flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold Sub-Out
0907563-019A	PCB-26	Solid	EPA 8082 (PCB Only)	ARCHIVE 1	Bag	7/21/2009	5 days		<input type="checkbox"/>
0907563-020A	PCB-27	Solid	EPA 8082 (PCB Only)	ARCHIVE	Bag	7/21/2009	5 days		<input type="checkbox"/>
0907563-021A	PCB-29	Solid	EPA 8082 (PCB Only)	ARCHIVE 1	Bag	7/21/2009	5 days		<input type="checkbox"/>

Change: Assessment: Robert E Gils Robert E Gils 7-22-09

Bottle Legend:

Bag =

Page 2 of 2

McC Campbell Analytical, Inc.



1554 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0907563 ClientCode: RGAE

☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:

Bob Gils

RGA Environmental
1466 66th Street
Emeryville, CA 94608
(510) 547-7771 FAX (510) 547-1983

Email: bob@rgaenv.com

cc:

PO:

ProjectNo: #BRES 21720; 100 California Street

Bill to:

Andrea Peacock
RGA Environmental
1466 66th Street
Emeryville, CA 94608
invoices@rgaenv.com

Requested TAT: 5 days

Date Received: 07/22/2009

Date Printed: 07/22/2009

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12

0907563-001	PCB-1	Solid	7/21/2009	<input type="checkbox"/>		A										
0907563-003	PCB-3	Solid	7/21/2009	<input type="checkbox"/>	A											
0907563-005	PCB-7	Solid	7/21/2009	<input type="checkbox"/>		A										
0907563-007	PCB-9	Solid	7/21/2009	<input type="checkbox"/>	A											
0907563-009	PCB-13	Solid	7/21/2009	<input type="checkbox"/>		A										
0907563-011	PCB-17	Solid	7/21/2009	<input type="checkbox"/>	A											
0907563-013	PCB-19	Solid	7/21/2009	<input type="checkbox"/>		A										
0907563-015	PCB-21	Solid	7/21/2009	<input type="checkbox"/>		A										
0907563-017	PCB-23	Solid	7/21/2009	<input type="checkbox"/>		A										

Test Legend:

1	8082A PCB Solid
6	
11	

2	CAM17MS Solid
7	
12	

3	
8	

4	
9	

5	
10	

Comments: Changes made 7/22/09 3:30pm

Prepared by: Maria Venegas

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.